

Title (en)

OPTICAL MEMBER AND MANUFACTURING METHOD THEREOF

Title (de)

OPTISCHES GLIED UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ORGANE OPTIQUE ET PROCEDE DE FABRICATION DE CE DERNIER

Publication

**EP 1731931 A1 20061213 (EN)**

Application

**EP 05727995 A 20050331**

Priority

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Abstract (en)

An optical member utilizing diffraction, which comprises a substrate having a fine structure comprising microstructures with an interval of 50-1,000 nm between the adjacent microstructures on a substrate surface, wherein the substrate has a surface layer portion comprising a region containing fluorine atoms in an amount larger than that in the inner layer portion thereof. The microstructures are preferably micro-protrusions each tapering toward the tip in the direction perpendicular to the substrate surface. The optical member is manufactured by a method comprising a step of exposing the surface of the substrate having a fine structure comprising microstructures with an interval of 50-1,000 nm between the adjacent microstructures to an atmosphere containing a fluorine gas.

IPC 8 full level

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CPC (source: EP KR US)

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